

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027362

Luminaire Tested: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027362
REPORT IS A COMBINATION OF REPORTS P1001307 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

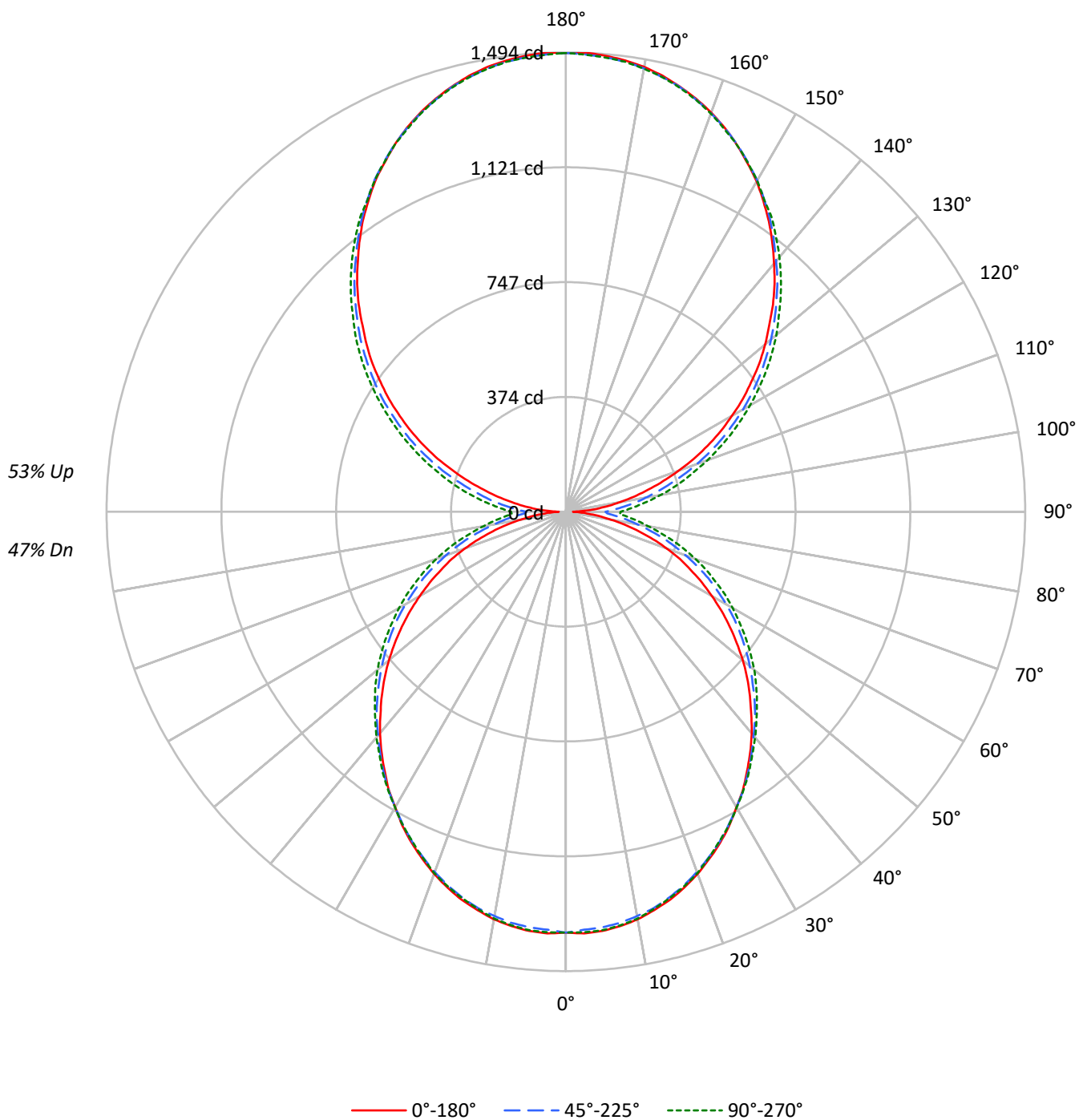
Lumens per Lamp: N/A
Luminaire Lumens: 8407.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1027362

CATALOG NUMBER: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	92	88	84	88	85	81	78	71	68	66	58	56	55	46	45	44
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	42	38	39	35	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	22	18	16
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

TEST NUMBER: P1027362

CATALOG NUMBER: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.5
10°-20°	367.7	4.4
20°-30°	546.7	6.5
30°-40°	647.5	7.7
40°-50°	669.4	8.0
50°-60°	616.7	7.3
60°-70°	498.5	5.9
70°-80°	333.6	4.0
80°-90°	174.7	2.1
90°-100°	196.3	2.3
100°-110°	366.4	4.4
110°-120°	547.9	6.5
120°-130°	685.3	8.2
130°-140°	749.4	8.9
140°-150°	725.3	8.6
150°-160°	607.2	7.2
160°-170°	403.6	4.8
170°-180°	141.3	1.7
0°-30°	1043.9	12.4
0°-40°	1691.5	20.1
0°-60°	2977.5	35.4
0°-90°	3984.3	47.4
90°-120°	1110.6	13.2
90°-150°	3270.5	38.9
90°-180°	4423.0	52.6
0°-180°	8407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	23	75	129	165	178	20
95°	93	130	187	225	237	93
105°	277	304	351	385	398	295
115°	509	522	560	583	590	503
125°	736	741	770	788	794	659
135°	953	958	969	986	988	734
145°	1152	1156	1159	1166	1168	720
155°	1317	1317	1318	1323	1317	607
165°	1432	1430	1431	1435	1428	404
175°	1489	1484	1484	1491	1483	141
180°	1492	1492	1492	1492	1492	

TEST NUMBER: P1027362

CATALOG NUMBER: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.7	74.9	128.6	165.3	178.2
92.5°	53.6	98.3	155.8	193.4	205.1
95°	92.9	130.1	187.4	225.0	236.8
97.5°	132.2	165.6	226.1	261.3	271.9
100°	177.4	205.5	263.6	302.2	312.5
102.5°	225.9	257.2	304.6	343.0	354.6
105°	276.9	304.1	351.3	385.1	398.0
107.5°	332.4	357.0	401.7	432.1	440.1
110°	390.3	412.2	453.3	482.3	490.5

TEST NUMBER: P1027362

CATALOG NUMBER: S125DIP-B1090D1270UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	450.7	465.1	505.9	531.3	538.3
115°	508.6	522.5	559.8	582.8	589.6
117.5°	567.6	575.5	611.4	635.3	640.1
120°	623.3	633.1	665.2	688.0	691.5
122.5°	682.4	684.9	717.9	738.2	742.8
125°	735.8	741.4	769.5	788.5	794.1
127.5°	793.7	795.8	819.8	838.7	844.5
130°	845.9	850.4	871.5	889.2	893.6
132.5°	896.9	907.3	919.6	937.2	939.1
135°	952.6	958.2	968.7	986.2	988.3
137.5°	1004.9	1010.4	1018.2	1035.4	1035.0
140°	1053.4	1059.2	1064.1	1081.1	1080.7
142.5°	1103.3	1106.7	1111.3	1124.6	1124.1
145°	1152.1	1155.5	1158.9	1165.6	1167.6
147.5°	1196.1	1199.6	1201.9	1208.1	1201.5
150°	1241.4	1240.2	1244.9	1244.9	1243.9
152.5°	1278.6	1280.9	1282.0	1285.5	1280.9
155°	1316.9	1316.9	1318.0	1322.7	1316.9
157.5°	1351.7	1349.4	1350.5	1355.2	1347.1
160°	1381.9	1378.4	1379.6	1384.2	1378.4
162.5°	1408.6	1406.3	1406.3	1412.1	1405.1
165°	1431.8	1429.5	1430.7	1435.3	1428.4
167.5°	1452.7	1448.1	1448.1	1455.1	1448.1
170°	1469.0	1464.4	1464.4	1471.3	1463.2
172.5°	1480.6	1476.0	1476.0	1482.9	1476.0
175°	1488.7	1484.1	1484.1	1491.1	1482.9
177.5°	1494.5	1489.9	1488.7	1495.7	1487.6
180°	1492.2	1492.2	1492.2	1492.2	1492.2

(END OF REPORT)